NH"1'2210	Linux Systems Administration Spring Semester 2021
NH"1'2210	

Instructor Classroom	AJ Hepler Office: D2 308N (Davis Campus) Phone: 801-395-3433 E-mail: <u>ajhepler@weber.edu</u> Virtual Office Hours: Tuesday, Wednesday 2:30pm-5:00pm (Please email me for a Zoom link) Online
Textbook	<i>NDG Introduction to Linux 1</i> (1 st Edition). (ISBN: 978-1946780041) The textbook for this course is a digital service that can be purchased directly from the publisher's website. You will be prompted to pay for the text when you first try to access the curriculum on the <u>https://www.netacad.com</u> website. You may also purchase an access code at the following address: <u>https://content.netdevgroup.com/buy/60434/</u> , or make arrangements to purchase the code through the Weber State bookstore.
COVID-19	Although this is an online class, it is important that you are aware of on-campus requirements should you need to visit any of the Weber State campuses or facilities. This will help ensure that we all do our part to minimize the potential impact of COVID-19 this semester. Information about COVID-19 response plans, student expectations, and other pertinent information can be found at <u>https://www.weber.edu/coronavirus/default.html</u> . This page is frequently updating, so you should try to check it often. Communications about any University updates will be sent out as applicable. All students in this course will be required to read, understand, and acknowledge that they will abide by and follow the coronavirus mitigation protocols that are in place whenever visiting a Weber State Facility. Any students taking in-person, face-to-face courses will be required to take a COVID-19 test within 10 days of the start of the semester. After January 22 nd , students, faculty, and staff will be randomly selected to take COVID-19 test. A full description of expectations and guidelines for students during the Spring 2021 semester can be found at https://www.weber.edu/wsuimages/academicaffairs/Forms/StudentExpectations.pdf. Note that you will need to acknowledge that you have read this document and agree to the expectations prior to being permitted to start this course.
Course Description	This course gives students a solid foundation in the fundamentals of the Linux operating system. Students gain system-level experience through problem-solving exercises at the command line and in the graphical user interface (GUI). By the end of the course, students will have learned the major, essential, command-line commands necessary to be accomplished users of Linux. Course Prerequisite: NET 2200

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	Upon successful completion of this course, students should be proficient in the following areas:	
	Navigate Linux using the command line	
	Effectively utilize built-in Linux utilities	
	 Manage hardware and software Configure and maintain networking features 	
	 Write custom shell scripts 	
	 Manage system services, permissions, files, and directories 	
	Students are expected to watch the videos and read the materials associated with each week located in Canvas. Questions and comments are strongly encouraged. It is expected that students will read the material related to each week's coursework and pay attention to any announcements posted throughout the semester.	
Quizzes, and Exercises	Assignments for the class will be accessible at the beginning of each week on Canvas. Assignments will consist of review quizzes and lab exercises. Due dates will be available inside each assignment's instructions on Canvas. Late assignments may be accepted with a 10% penalty for up to an additional week to provide for unforeseen circumstances. Assignments submitted beyond one week late will not be accepted.	
	You will be required to complete quizzes inside of the Cisco Networking Academy online system located at <u>https://www.netacad.com/</u> , and you will submit your scores in Canvas through Weber State. The scores and grade book you see on the Cisco Networking Academy do not accurately reflect your grade in the Weber State course as you will be completing additional exercises outside of the Networking Academy. Your grade will be tracked on Canvas instead.	
	The course will consist of two exams; a midterm and a final. The exams will be administered via the Chi Tester and will be proctored by the Weber State testing center. Exams must be taken during the exam period provided and cannot be taken late.	
	Due to COVID-19, some limitations have been placed on which testing centers can be used for any course that has tests administered through the testing center. Each course at the University has been designated one testing center for any test that must have physical attendance. This semester, students in this course have been authorized to use the Davis Testing Center at the Weber State Davis Campus . That means you must make arrangements to visit that testing center if you prefer to take exams onsite at Weber State.	
	The other option for exams in this course will be to take them online using a service called Proctorio. This service is free to you and does not require an appointment. The testing center recommends that you take a practice exam prior to attempting an actual exam in the course to familiarize yourself with the process. Details about Proctorio can be found at the following link: <u>https://www.weber.edu/testingcenter/online-testing.html</u>	
	As Proctorio has gained popularity, so have the number of exam attempts that have been flagged for not following the proper procedures when taking tests. If you opt to use Proctorio for taking exams, make sure you pay close attention to each of the requirements when setting up your exam environment. The most commonly flagged issue has been students not completing a 360-degree scan of the room they are taking tests in. Be sure to comply with the rules outlined on the site above to avoid risking your exam results being invalidated.	

Accommodations for disabilities	Any student requiring accommodations or services due to a disability must contact Services for Students with Disabilities (SSD) in room 181 of the Student Service Center.	
Grading	Final grades will be weighted based on the following criteria:Quizzes10%Assignments and Labs40%Exams50%The final grade will be given based on points accumulated through assignments, quizzes, exams and labs. Standard grading will apply: $94-100$ A $94-100$ A $74-76$ C $90-93$ A- $70-73$ C- $87-89$ B+ $67-69$ D+ $84-86$ B $80-83$ B- $77-79$ C+ $0-59$ E	
Allocated Time	You should anticipate spending two to three hours of study per week for each credit hour of a university course. Computer and programming classes typically require time in the upper range.	
Policies	Exams can only be taken on the dates given unless arrangements are made to take them ahead of time. If you know you are going to be absent at any point during the semester, notify your instructor so you can keep up with the material covered in class.	
Academic Integrity (Cheating)	 Students are expected to maintain academic ethics and integrity in regards to performing their own work. The WSU Student Code states clarifies cheating. Cheating, which includes but is not limited to: Copying from another student's test paper Using materials during a test not authorized by the person giving the test Collaborating with any other person during a test without authority Knowingly obtaining, using, buying, selling, transporting, or soliciting in whole or in part the contents of any test, without authorization of the appropriate official Bribing any other person to obtain any test Soliciting or receiving unauthorized information about any test Substituting for another student or permitting any other person to substitute for oneself to take a test Plagiarism, which is the unacknowledged (uncited) use of any other person or group's ideas or work. This includes purchased or borrowed papers. Collusion, which is the intentional and unauthorized altering or inventing of any information or citation in an academic exercise, activity, or record-keeping process Giving, selling or receiving unauthorized course or test information Using any unauthorized resource or aid in the preparation or completion of any course work, exercise or activity 	

	13. Infringing on the copyright law of the United States which prohibits the making of reproductions of copyrighted material except under certain specified conditions
	 School of Computing policy dictates that any verifiable evidence of student academic cheating, as defined and determined by the instructor, will result in: An automatic failing grade for the class A report to the Dean of Students that will include the student's name and a description of the student's dishonest conduct
	Further disciplinary action may be taken by the University as it deems appropriate. You can find more information about academic honesty in the Weber State Policies and Procedures Manual. <u>http://www.weber.edu/ppm/Policies/6-22_StudentCode.html</u>
	If you are not sure whether or not you might violate one of these stipulations, check with your instructor prior to submitting any assignments with questionable content. Refrain from the urge to copy and paste content from the web or anywhere else. A poor grade on a single assignment is much better than a failing grade for the course.
Course Fees	Course fees for the NET major are designed to cover the costs of lab equipment maintenance and replacement including desktop and server computer systems and software; consumable materials and supplies; and support for lab aides, student tutors, and online instructional resources.
Emergency Closure	In the event of an emergency or campus closure, please check Canvas for more information. You may want to sign up for Weber State's Code Purple if you haven't done so already to be alerted when these things happen. (https://www.weber.edu/codepurple)

Week of	Topic	Coursework
January 11	Accessing the Linux Environment	Lab Assignment 1
Week 1		
January 18	Configuring the Linux Shell	Chapters 1, 2. and 3 Quizzes
Week 2		Lab Assignment 2
January 25	Working with Files	Chapters 4 and 5 Quizzes
Week 3		Lab Assignment 3
February 01	Using Text Utilities	Chapters 6, 7, and 9 Quizzes
Week 4		Lab Assignment 4
February 08	Regular Expressions, Streams, and Redirection	Chapters 8 and 10 Quizzes
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Week 5 February 15	Archiving and Managing Processes	Chapters 11 and 12 Quizzes
	Archiving and Managing Processes	Lab Assignment 6
Week 6		
February 22	File Permissions and Links	Chapters 13 and 14 Quizzes Lab Assignment 7
Week 7		
March 01	Midterm Exam Review	Midterm Exam
Week 8		
March 08	Spring Break	Spring Break (no assignments)
Week 9		
March 15	Introduction to Bash Scripting	Lab Assignment 8
Week 10		
March 22	Hardware, Booting, and Runlevels	Chapters 15, 16, 17, and 18
Week 11		Quizzes Lab Assignment 9
March 29	Creating and Mounting Partitions	Chapters 19, 20, 21 Quizzes
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Week 12	Managing Users and Casura	Chantan 22, 22 Ouimas
April 05	Managing Users and Groups	Chapters 22, 23 Quizzes Lab Assignment 11
Week 13		
April 12	Package Management and Special Permissions	Chapters 24, and 25 Quizzes
Week 14		Lab Assignment 12
April 19	Virtualization	Chapter 26 Quiz
Week 15	Final Exam Review	Lab Assignment 13
April 26	Finals Week	Final Exam
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Week 16		

Tentative Class Schedule and Course Outline (subject to change)